

What is claimed is:

1. An isolated polypeptide comprising the sequence of SEQ ID NO:2 or NO:4, or a fragment or variant thereof.
2. A fragment of said polypeptide of Claim 1, wherein said fragment is a functional fragment.
3. A variant of said polypeptide of Claim 1, wherein said variant is a functional variant.
4. An isolated polynucleotide comprising the sequence of SEQ ID NO:1 or NO:3 or a fragment or variant thereof.
5. A fragment of said polypeptide of Claim 4, wherein said fragment is a functional fragment.
6. A variant of said polypeptide of Claim 4, wherein said variant has a 96% sequence identity to SEQ ID NO:1 or 3.
7. An *Helicobacter pylori* anti- σ^{28} factor comprising a polypeptide sequence of SEQ ID NO:6, or a fragment or variant thereof.
8. A fragment of said *Helicobacter pylori* anti- σ^{28} factor polypeptide of Claim 7, wherein said fragment is a functional fragment.
9. A variant of said *Helicobacter pylori* anti- σ^{28} factor polypeptide of Claim 7, wherein said variant has a 96% sequence identity to SEQ ID NO:6.
10. An *Helicobacter pylori* anti- σ^{28} factor comprising a polynucleotide sequence of SEQ ID NO:5 or a fragment or variant thereof.
11. A fragment of said *Helicobacter pylori* anti- σ^{28} factor polynucleotide of Claim 10, wherein said fragment is a functional fragment.
12. A variant of said *Helicobacter pylori* anti- σ^{28} factor polynucleotide of Claim 10, wherein said variant has 96% sequence identity to SEQ ID NO:5.
13. An expression vector comprising the polynucleotide of Claim 4.
14. A recombinant host cell comprising the expression vector of Claim 13.
15. A complex of at least two interacting polypeptides comprising HP1122 protein (SEQ ID NO:6) and HP1032 protein (SEQ ID NO:8), HP1122 protein (SEQ ID NO:6) and SID1032 (SEQ ID NO:4), SID1122 (SEQ ID NO:2) and HP1032 protein (SEQ ID NO:8) or SID1122 (SEQ ID NO:2) and SID1032 (SEQ ID NO:4).
16. A complex of at least two interacting polypeptides comprising:
 - a polypeptide having at least 95% amino acid identity with SEQ ID NO:6 and
 - a polypeptide having at least 95% amino acid identity with SEQ ID NO:8; or
 - a polypeptide having at least 95% amino acid identity with SEQ ID NO:6 and
 - a polypeptide having at least 95% amino acid identity with SEQ ID NO:4; or

a polypeptide having at least 95% amino acid identity with SEQ ID NO:2 and
a polypeptide having at least 95% amino acid identity with SEQ ID NO:8;or
a polypeptide having at least 95% amino acid identity with SEQ ID NO:2 and
a polypeptide having at least 95% sequence identity with SEQ ID NO:4.

17. A set of at least two polynucleotides selected from the group comprising:
a first polynucleotide encoding HP1122 (SEQ ID NO:6) and
a second polynucleotide encoding HP1032 (SEQ ID NO:8);
a first polynucleotide encoding HP1122 (SEQ ID NO:6) and
a second polynucleotide encoding SID1032 (SEQ ID NO:4);
a first polynucleotide encoding SID1122 (SEQ ID NO:2) and
a second polynucleotide encoding HP1032 (SEQ ID NO:8);
a first polynucleotide encoding SID1122 (SEQ ID NO:2) and
a second polynucleotide encoding SID1032 (SEQ ID NO:4), and combinations thereof.

18. A set of at least two polynucleotides selected from the group comprising:
a first polynucleotide of sequence SEQ ID NO:5 and a second polynucleotide of
SEQ ID NO:7;
a first polynucleotide of sequence SEQ ID NO: 5 and a second polynucleotide of
SEQ ID NO:3;
a first polynucleotide of sequence SEQ ID NO:1 and a second polynucleotide of
SEQ ID NO:7; and
a first polynucleotide of sequence SEQ ID NO:1 and a second polynucleotide of
SEQ ID NO:3, and combinations thereof.

19. A set of at least two polynucleotides selected from the group comprising:
a first polynucleotide having at least 70% nucleic acid identity with sequence
SEQ ID NO.5 and a second polynucleotide having at least 70% nucleic acid
identity with sequence SEQ ID NO:7;
a first polynucleotide having at least 70% nucleic acid identity with sequence
SEQ ID NO:5 and a second polynucleotide having at least 70% nucleic acid
identity with sequence SEQ ID NO:3;
a first polynucleotide having at least 70% nucleic acid identity with sequence
SEQ ID NO:1 and a second polynucleotide having at least 70% nucleic acid
identity with sequence SEQ ID NO:7;
a first polynucleotide having at least 70% nucleic acid identity with sequence
SEQ ID NO:1 and a second polynucleotide having at least 70% nucleic acid
identity with sequence SEQ ID NO:3 and combinations thereof.

- Claim 17. 20. An expression vector comprising the set of at least two polynucleotides of
- Claim 18. 21. An expression vector comprising the set of at least two polynucleotides of
- Claim 19. 22. An expression vector comprising the set of at least two polynucleotides of
23. A recombinant host cell comprising the expression vector of Claim 20.
24. A recombinant host cell comprising the expression vector of Claim 21.
25. A recombinant host cell comprising the expression vector of Claim 22.

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